Bell

York Region manages traffic efficiently with remote monitoring solutions from Bell.

The Regional Municipality of York (York Region) Transportation and Community Planning Department serves a community that covers 1,776 square kilometres, with a population of more than 1,100,000 residents. It monitors and controls 815 traffic signal locations, as well as closed circuit TV cameras used for monitoring traffic and variable message sign trailers used for updating motorists on road conditions and construction projects.

The need.

With a population that continues to grow and with more cars on the road, the municipality needed a cost-effective solution that would allow for instant and continuous communication to ensure that traffic lights and pedestrian crossings were correctly timed for optimal traffic flow.

York Region relied on a spread spectrum radio network to communicate with traffic signals, but found that connectivity was slow and coverage on the network was not expansive enough to support traffic signals in all areas of the region. They also installed wired connections to traffic signals in congested, high-traffic areas where busy intersections with complex signal operations required reliable connection for second-by-second monitoring. This wired setup was effective, but costly.

The solution.

York Region implemented a robust and scalable traffic monitoring system with rugged, high-speed modems and wireless service from Bell. The municipality installed wireless modems at 170 intersections across the region to link to their centralized traffic control system through Bell's extensive network.

Direct communication with traffic lights and cameras at intersections allows York Region to remotely monitor and modify signals. When required, they are able to download updated traffic information to ensure that everything is working efficiently. Setting up the new traffic monitoring system with Bell was fast and easy.

Choose Bell for world class Internet of Things (IoT) solutions.

Bell offers the best selection of global IoT platforms in Canada.

Only Bell offers access to M2M platforms powered by both Jasper and Ericsson, so wherever your business takes you, Bell has you covered better than anyone else.

Access to the largest LTE network across Canada.

The bigger the network, the more places you can benefit from the productivity benefits of M2M and IoT solutions. And Bell gives you access to Canada's largest LTE network, which covers more than 485,000 km^2 of the country.[1]

Expert advice.

With the largest team of PhD's, SME's and professionals in the country, Bell will provide a team of certified IoT professionals and application solutions experts focused on the necessary device certifications and crafting of IoT solutions tailored to your business.

IoT Case Study

The result.

With wireless modems installed at intersections across the municipality, York Region is now able to monitor traffic conditions in real-time, and if necessary, make adjustments instantly as those conditions change to improve traffic flows.

When traffic lights malfunction, the municipality is able to instantly identify troubled intersections and attend to the defective equipment

With faster data speeds, York Region is now able to monitor intersections that have both traffic signals and cameras. Later this year, they plan to install an additional 30 wireless modems to support locations with cameras that offer much higher video recording resolution. Streaming real-time high-quality video requires faster connectivity.

The municipality also has eight digital message sign trailers that are placed around the region to inform drivers of changing road conditions. With wireless modems from Bell, they no longer have to send personnel to visit each sign to change the messaging manually.

Why choose modems from Bell?

Speed and flexibility.

Locate, monitor or control remote equipment on Bell's LTE network.

Built tough for real-world conditions.

Designed to military-grade specifications, modems from Bell are as rugged as they are functional.

Does your business encounter similar challenges?
For more information about remote monitoring solutions from Bell, visit **Bell.ca/IoT** to request a callback from a Bell Business Expert.